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# The NOT in the era of the MAAT-IFU on the GTC

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A new mirror-slicer optical instrument, named MAAT, will allow the OSIRIS spectrograph on the Gran Telescopio de CANARIAS (GTC) the capability to perform Integral-Field Spectroscopy over a seeing-limited FoV  $12.0'' \times 8.5''$  with a slice width of  $0.303''$ . MAAT will enhance the resolution power of OSIRIS by 1.6 times as compared to its  $0.6''$  long-slit. All the eleven OSIRIS grisms and volume-phase holographic gratings will be available to provide broad spectral coverage with resolution  $R=600$  up to  $4100$  in the  $360\text{-}1000$  nm wavelength range. MAAT top-level requirements will broaden its use to the needs of the GTC astronomical community for a wide range of competitive science topics that covers the entire astronomy given its unique observing capabilities. The GTC equipped with OSIRIS+MAAT will also play a fundamental role in synergy with worldwide facilities, in particular the NOT operating on the ORM at La Palma. I will highlight the focus on a selected set of outstanding science topics enabled by the Nordic-Spanish team supporting this project in different areas of expertise, and I will present an overview of the instrument design, performance and status.

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